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Energy Sector & USAID Energy Program in Jordan

August 2011



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Energy Imports

- Jordan imports ~96% of its energy
- In 2010, this costs \$4 billion, which translates to:

25%
of
Imports

50%
of
Exports

20%
of
GDP

GOJ's support to the oil sector in the first 6 months of 2011 =
\$400 million.



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Use of Imported Energy by Sector

- **Residential** ~ 24%
- Industrial ~ 23%
- Transportation ~ 38%
- Other ~ 15%



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Use of Generated Electricity by Sector

- **Residential** ~ **33%**
- Industrial ~ 26%
- Commercial ~ 16%
- Water Pumping ~ 15%
- Street Lighting ~ 3%
- Other ~ 15%



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Growth and Needs

- Energy growth ~5.5% annually
- Electricity demand growth ~7.5% annually
- 300 MW per year of new capacity will be required



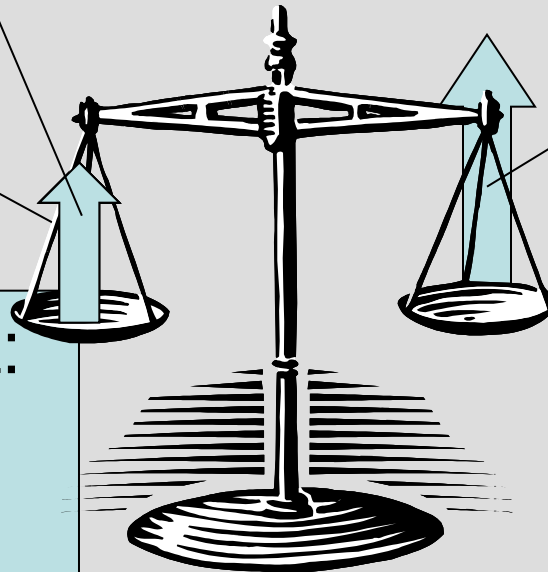
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The Situation

Jordan requires increasing energy supplies for economic growth and social development

No more
low oil
prices

Gas from Egypt:
Price up
Supply down +
Line sabotages



Expand
energy
services to
keep
economy
growing



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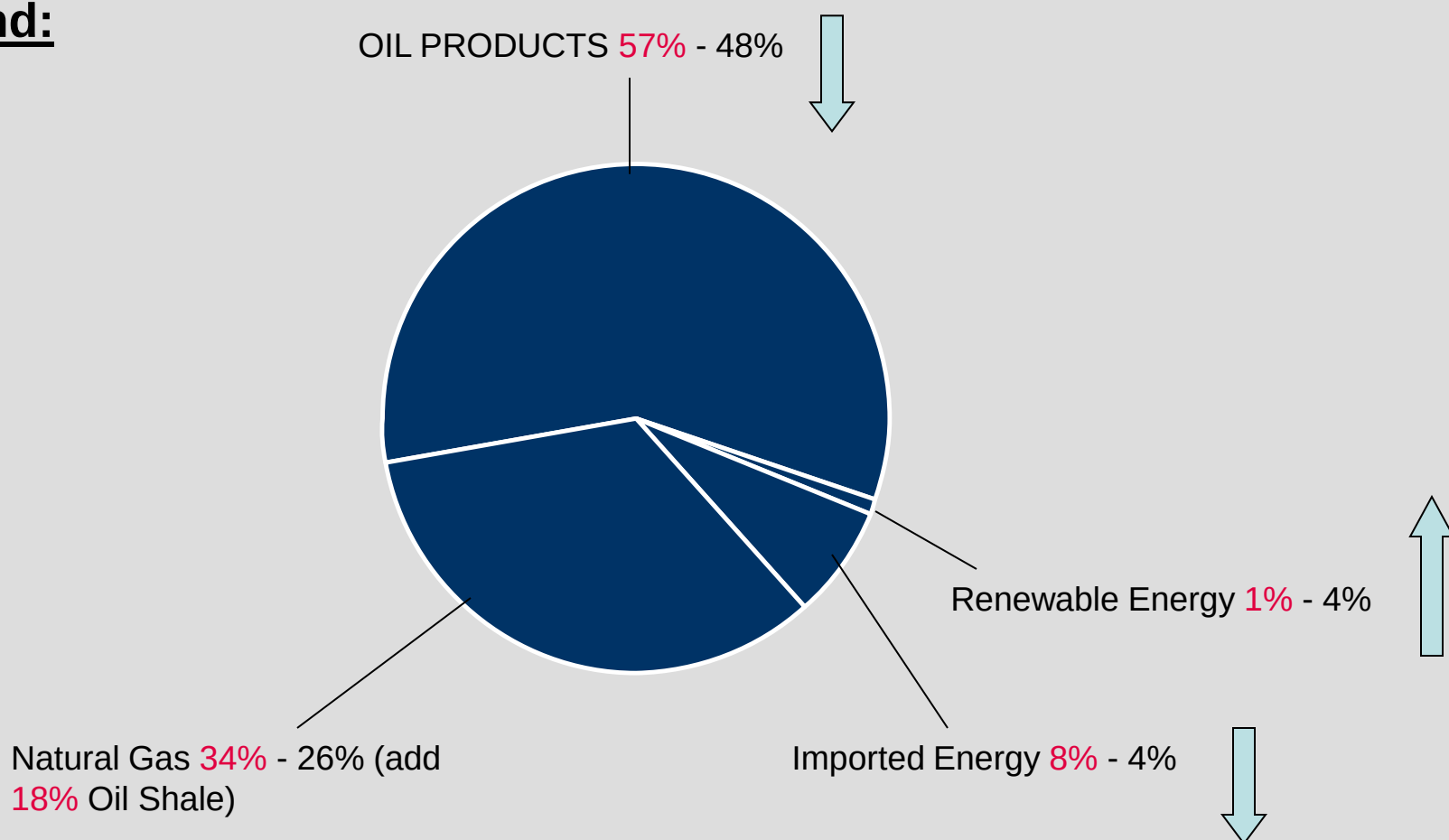
Percentage of Contribution of energy types in total energy mix for years 2007 and 2020

Per Updated Energy Sector Strategy (December 2007)

Legend:

2007

2020





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USAID/Jordan Energy Program Objectives

- Objective 1: An incentive framework that promotes best use of national energy resources
- Objective 2: Energy producers, utilities, and consumers utilize best energy use practices
- Objective 3: U.S. energy expertise supports the Jordan energy sector

Cross-Cutting

Build GOJ capacity; improve the adaptive capacity of Jordanian society; improve access to credit to enhance investment in energy efficiency



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Activities

Assessment of an Energy Efficiency Incentive Framework for Electricity Distribution Companies in Jordan

2009 – 2010

- 1) Assess the possibility of developing an energy efficiency incentive mechanism to encourage fast deployment of energy efficiency measures on the demand side through the electricity distribution companies
- 2) Identify the needed technical assistance support to the Electricity Regulatory Commission (ERC) and the three Jordanian electricity distribution companies to implement and monitor such a mechanism.



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Electricity Distribution Utilities Partnership

2009 – 2012



Executive
Exchanges

These are practitioner-to-practitioner, multi-year partnerships between U.S. and developing country utilities for the purpose of promoting more efficient, sustainable, and environmentally sound supply and use of energy through the transfer of market-based approaches and "best practices" for energy system operation.



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Electricity Transmission Utility Partnership

2009 – 2012



Executive
Exchanges

These are practitioner-to-practitioner, multi-year partnerships between U.S. and developing country utilities for the purpose of promoting more efficient, sustainable, and environmentally sound supply and use of energy through the transfer of market-based approaches and "best practices" for energy system operation.



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Electricity Regulatory Commissions Partnership

2008 – 2012

Workshop + Job
Shadowing

Colorado Public Utilities Commission will train, share experience, and cooperate with ERC to strengthen the capacity of the Jordanian regulators, enhance the overall institutional capacity of the ERC, improve its oversight of the electricity market and facilitate the development of a competitive market.



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Building Green in Jordan

2009 – 2011

1. Develop a replicable case study to understand the Green - Energy Efficient Building concept as it is applied in Jordan.
2. Develop replicable models for implementing energy efficiency (EE) audits in existing government and institutional buildings
3. Training Ministry of Education selected staff on implementing the EE audit in their schools.



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Public Action for Water, Energy and Environment

2009 – 2014

Initiate and establish clear and identifiable behavioral changes amongst the Jordanian public and decision makers in their dealings with water, energy and solid waste.



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THANK YOU